

**CLEAN VERSION OF CLAIMS**

We claim:

1. An apparatus for treating a substrate, said apparatus comprising means for emitting and delivering energy to said substrate, a programmable controller for varying the energy emitted, and means for sensing a condition of said substrate, wherein said energy is represented by a predetermined continuous waveform graph wherein said graph comprises a continuous line that rises to a first value and thereafter declines to a second value and thereafter rises to a third value, and thereafter declines to a fourth value, wherein said first value is greater than any other value in said waveform and third value is greater than any other value in said waveform with the exception of the first value.
2. The apparatus as recited in claim 1, wherein said substrate is water.
3. The apparatus as recited in claim 1, wherein said substrate is comprised of bacteria.
4. The apparatus as recited in claim 1, wherein said substrate is comprised of yeast.
5. The apparatus as recited in claim 1, wherein said substrate is comprised of viruses.
6. The apparatus as recited in claim 1, wherein said substrate is a living organism.
7. The apparatus as recited in claim 6, wherein said living organism is a mammal.
8. The apparatus as recited in claim 1, wherein said energy is radio frequency energy with a wavelength of from about 1 to about 10 millimeters and a frequency of from about 30 to about 300 gigahertz.
9. The apparatus as recited in claim 1, wherein said energy is vibrational energy.
10. The apparatus as recited in claim 9, wherein said vibrational energy is acoustic waves.
11. Canceled

12. The apparatus as recited in claim 1, wherein said means for sensing a condition of said substrate is an implantable electromagnetic probe.
13. The apparatus as recited in claim 1, wherein said energy is photonic energy.
14. The apparatus as recited in claim 1, wherein said energy is a mixture of energies selected from the group consisting of photonic energy, vibratory energy, and electrical energy.
15. The apparatus as recited in claim 1, wherein said energy is comprised of pulsed electromagnetic fields.
16. The apparatus as recited in claim 1, wherein said apparatus is comprised of a catheter through which said energy is fed from an external source.
17. The apparatus as recited in claim 1, wherein said apparatus further comprises a pacemaker.
18. The apparatus as recited in claim 1, wherein said apparatus further comprises a neurostimulator.
19. The apparatus as recited in claim 1, wherein said means for emitting and delivering energy is a watch.
20. The apparatus as recited in claim 1, wherein said means for emitting and delivering said energy is a set of headphones.